

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3797816

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY | 03/23/2016 |

RECEIVING PARTY DATA

| | |
|------------------------|--|
| Name: | UNIST (ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY) |
| Street Address: | 50, UNIST-GIL |
| City: | ULSAN |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 44919 |

PROPERTY NUMBERS Total: 82

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14845488 |
| Application Number: | 14144792 |
| Application Number: | 14700215 |
| Application Number: | 14555712 |
| Application Number: | 14555713 |
| Application Number: | 14399333 |
| Application Number: | 14411176 |
| Application Number: | 14476880 |
| Application Number: | 14494764 |
| Patent Number: | 9166578 |
| Application Number: | 14309945 |
| Application Number: | 14159521 |
| Application Number: | 14515526 |
| Application Number: | 14227028 |
| Application Number: | 14250790 |
| Application Number: | 14057306 |
| Application Number: | 14037590 |
| Application Number: | 14037615 |
| Patent Number: | 9203083 |
| Patent Number: | 9172081 |

PATENT

| Property Type | Number |
|----------------------------|---------------|
| Application Number: | 13855798 |
| Patent Number: | 8574942 |
| Patent Number: | 9096705 |
| Patent Number: | 8808921 |
| Patent Number: | 9156682 |
| Application Number: | 13378729 |
| Patent Number: | 8669008 |
| Application Number: | 13358214 |
| Application Number: | 13358119 |
| Application Number: | 13006921 |
| Application Number: | 12655034 |
| Application Number: | 14626214 |
| Application Number: | 14758097 |
| Application Number: | 14759656 |
| Application Number: | 14605716 |
| Application Number: | 14394835 |
| Application Number: | 14495961 |
| Application Number: | 14335324 |
| Application Number: | 14322007 |
| Application Number: | 14353032 |
| Application Number: | 14369199 |
| Application Number: | 14233129 |
| Patent Number: | 8871480 |
| Application Number: | 13843964 |
| Application Number: | 13810023 |
| Patent Number: | 9017638 |
| Patent Number: | 6339334 |
| Application Number: | 13270198 |
| Patent Number: | 8575335 |
| Application Number: | 13904525 |
| Application Number: | 14765567 |
| Patent Number: | 8618858 |
| Application Number: | 14264804 |
| Application Number: | 14610040 |
| Application Number: | 14027053 |
| Application Number: | 13566553 |
| Patent Number: | 9196896 |
| Patent Number: | 9150020 |

| Property Type | Number |
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| Patent Number: | 8625654 |
| Application Number: | 14781261 |
| Application Number: | 14744449 |
| Application Number: | 14248822 |
| Application Number: | 14248126 |
| Patent Number: | 9029252 |
| Application Number: | 14535952 |
| Application Number: | 14605738 |
| Patent Number: | 9083919 |
| Application Number: | 14780002 |
| Application Number: | 14894364 |
| Application Number: | 14967376 |
| Application Number: | 14843518 |
| Application Number: | 14684178 |
| Application Number: | 14547551 |
| Application Number: | 14849250 |
| Application Number: | 14895702 |
| Application Number: | 14923020 |
| Application Number: | 14972216 |
| Application Number: | 14904237 |
| Application Number: | 14975337 |
| Application Number: | 14873728 |
| Application Number: | 14908124 |
| Application Number: | 13566479 |

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NAME OF SUBMITTER: YOON S. HAM

SIGNATURE: /Yoon S. Ham/

DATE SIGNED: 03/23/2016

Total Attachments: 6

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ASSIGNMENT

WHEREAS, **ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY**, a corporation of Republic of Korea, located and doing business at 50, UNIST-gil, Ulsan 44919, Republic of Korea (hereinafter Assignor) own **U.S. Patent Nos. 9,166,578**, issued 10/20/2015, **9,203,083**, issued 12/01/2015, **9,172,081**, issued 10/27/2015, **8,574,942**, issued 11/05/2013, **9,096,705**, issued 8/4/2015, **8,808,921**, issued 8/19/2014, **9,156,682**, issued 10/13/2015, **8,669,008**, issued 3/11/2014, **8,871,480**, issued 10/28/2014, **9,017,638**, issued 4/28/2015, **6,339,334**, issued 1/15/2002, **8,575,335**, issued 11/5/2013, **8,618,858**, issued 12/31/2013, **9,196,896**, issued 11/24/2015, **9,150,020**, issued 10/6/2015, **8,625,654**, issued 1/7/2014, **9,029,252**, issued 5/12/2015, and **9,083,919**, issued 7/14/2015, and **U.S. Patent Application Nos. 14/845,488**, filed 9/4/2015, **14/144,792**, filed 12/31/2013, **14/700,215**, filed 4/30/2015, **14/555,712**, filed 11/28/2014, **14/555,713**, filed 11/28/2014, **14/399,333**, filed 11/6/2014, **14/411,176**, filed 12/24/2014, **14/476,880**, filed 9/4/2014, **14/494,764**, filed 9/24/2014, **14/309,945**, filed 6/20/2014, **14/159,521**, filed 1/21/2014, **14/515,526**, filed 10/16/2014, **14/227,028**, filed 3/27/2014, **14/250,790**, filed 4/11/2014, **14/057,306**, filed 10/18/2013, **14/037,590**, filed 9/26/2013, **14/037,615**, filed 9/26/2013, **13/855,798**, filed 4/3/2013, **13/378,729**, filed 12/16/2011, **13/358,214**, filed 1/25/2012, **13/358,119**, filed 1/25/2012, **13/006,921**, filed 1/14/2011, **12/655,034**, filed 12/22/2009, **14/626,214**, filed 2/19/2015, **14/758,097**, filed 6/26/2015, **14/759,656**, filed 7/8/2015, **14/605,716**, filed 1/26/2015, **14/394,835**, filed 10/16/2014, **14/495,961**, filed 9/25/2014, **14/335,324**, filed 7/18/2014, **14/322,007**, filed 7/2/2014, **14/353,032**, filed 4/21/2014, **14/369,199**, filed 6/27/2014, **14/233,129**, filed 3/5/2014, **13/843,964**, filed 3/15/2013, **13/810,023**, filed 3/20/2013, **13/270,198**, filed 10/10/2011, **13/904,525**, filed 5/29/2013, **14/765,567**, filed 8/3/2015, **14/264,804**, filed 4/29/2014, **14/610,040**, filed 1/30/2015, **14/027,053**, filed 9/13/2013, **13/566,553**, filed 8/3/2012, **14/781,261**, filed 9/29/2015, **14/744,449**, filed 6/19/2015, **14/248,822**, filed 4/9/2014, **14/248,126**, filed 4/8/2014, **14/535,952**, filed 11/7/2014, **14/605,738**, filed 1/26/2015, **14/780,002**, filed 09/25/2015, **14/894,364**, filed 11/26/2015, **14/967,376**, filed 12/14/2015, **14/843,518**, filed 09/02/2015, **14/684,178**, filed 04/09/2015, **14/547,551**, filed 11/19/2014, **14/849,250**, filed 09/09/2015, **14/895,702**, filed 12/03/2015, **14/923,020**, filed 10/26/2015, **14/972,216**, filed 12/17/2015, **14/904,237**, filed 08/16/2013, **14/975,337** filed on 12/18/2015, **14/873,728**, filed on 10/02/2015, **14/908,124**, filed on 01/28/2016, and **13/566,479**, filed 08/03/2012, by virtue of an Assignment as shown in the appendix A attached herewith.

WHEREAS, **UNIST (ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY)**, a corporation of Republic of Korea, located and doing business at 50, UNIST-gil, Ulsan 44919, Republic of Korea (hereinafter Assignee) is desirous of acquiring the complete title and

interest in said Letters Patents and Patent Applications.

NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor by these presents do sell, assign and transfers unto said Assignee, its successors, legal representatives, heirs and assigns the entire right, title and interest in the United States to said invention as described in **U.S. Patent Nos. 9,166,578**, issued 10/20/2015, **9,203,083**, issued 12/01/2015, **9,172,081**, issued 10/27/2015, **8,574,942**, issued 11/05/2013, **9,096,705**, issued 8/4/2015, **8,808,921**, issued 8/19/2014, **9,156,682**, issued 10/13/2015, **8,669,008**, issued 3/11/2014, **8,871,480**, issued 10/28/2014, **9,017,638**, issued 4/28/2015, **6,339,334**, issued 1/15/2002, **8,575,335**, issued 11/5/2013, **8,618,858**, issued 12/31/2013, **9,196,896**, issued 11/24/2015, **9,150,020**, issued 10/6/2015, **8,625,654**, issued 1/7/2014, **9,029,252**, issued 5/12/2015, and **9,083,919**, issued 7/14/2015, and **U.S. Patent Application Nos. 14/845,488**, filed 9/4/2015, **14/144,792**, filed 12/31/2013, **14/700,215**, filed 4/30/2015, **14/555,712**, filed 11/28/2014, **14/555,713**, filed 11/28/2014, **14/399,333**, filed 11/6/2014, **14/411,176**, filed 12/24/2014, **14/476,880**, filed 9/4/2014, **14/494,764**, filed 9/24/2014, **14/309,945**, filed 6/20/2014, **14/159,521**, filed 1/21/2014, **14/515,526**, filed 10/16/2014, **14/227,028**, filed 3/27/2014, **14/250,790**, filed 4/11/2014, **14/057,306**, filed 10/18/2013, **14/037,590**, filed 9/26/2013, **14/037,615**, filed 9/26/2013, **13/855,798**, filed 4/3/2013, **13/378,729**, filed 12/16/2011, **13/358,214**, filed 1/25/2012, **13/358,119**, filed 1/25/2012, **13/006,921**, filed 1/14/2011, **12/655,034**, filed 12/22/2009, **14/626,214**, filed 2/19/2015, **14/758,097**, filed 6/26/2015, **14/759,656**, filed 7/8/2015, **14/605,716**, filed 1/26/2015, **14/394,835**, filed 10/16/2014, **14/495,961**, filed 9/25/2014, **14/335,324**, filed 7/18/2014, **14/322,007**, filed 7/2/2014, **14/353,032**, filed 4/21/2014, **14/369,199**, filed 6/27/2014, **14/233,129**, filed 3/5/2014, **13/843,964**, filed 3/15/2013, **13/810,023**, filed 3/20/2013, **13/270,198**, filed 10/10/2011, **13/904,525**, filed 5/29/2013, **14/765,567**, filed 8/3/2015, **14/264,804**, filed 4/29/2014, **14/610,040**, filed 1/30/2015, **14/027,053**, filed 9/13/2013, **13/566,553**, filed 8/3/2012, **14/781,261**, filed 9/29/2015, **14/744,449**, filed 6/19/2015, **14/248,822**, filed 4/9/2014, **14/248,126**, filed 4/8/2014, **14/535,952**, filed 11/7/2014, **14/605,738**, filed 1/26/2015, **14/780,002**, filed 09/25/2015, **14/894,364**, filed 11/26/2015, **14/967,376**, filed 12/14/2015, **14/843,518**, filed 09/02/2015, **14/684,178**, filed 04/09/2015, **14/547,551**, filed 11/19/2014, **14/849,250**, filed 09/09/2015, **14/895,702**, filed 12/03/2015, **14/923,020**, filed 10/26/2015, **14/972,216**, filed 12/17/2015, **14/904,237**, filed 08/16/2013, **14/975,337** filed on 12/18/2015, **14/873,728**, filed on 10/02/2015, **14/908,124**, filed on 01/28/2016, and **13/566,479**, filed 08/03/2012, and all re-issues, or extensions of said Letters Patents to be held and enjoyed by said Assignee for its own use, or for its legal representatives, successors, heirs, and assigns to the full end of the term for which said Letters Patents and Patent Applications are granted, and any

extensions thereof, as fully and entirely as the same would have been held by said Assignor had this assignment and sale not been made, and for the same consideration said Assignor hereby covenants and agrees that at the time of execution and delivery of this instrument it is the lawful owner of the complete right, title and interest in and to said invention and said Letters Patents and Patent Applications above mentioned, and its interest is unencumbered and that it has good and full right and lawful authority to sell and convey its interest in the manner set forth herein; and for the same consideration Assignor hereby covenants and agrees that it will, whenever counsel for said Assignee, or counsel for their legal successors, legal representatives, heirs or assigns shall advise that any proceedings in connection with said Letters Patents and Patent Applications or any re-issue or extension of said Letters Patents and Patent Applications to be obtained thereon, is lawful and desirable, sign all papers and documents, make all lawful oaths, and do all acts necessary as required to be done for the procurement, maintenance, enforcement and defense of said Letters Patents, without charge to said Assignor, its successors, legal representatives, heirs and assigns, but at the expense of said Assignee, their successors, legal representatives, heirs and assigns.


Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including the right to sue for, and collect damages for, any and all acts of past and future infringement.

Assignor hereby grants Hauptman Ham, LLP, located at 2318 Mill Road, Suite 1400, Alexandria, VA 22314 (Customer No. 22429), the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Assignor:

ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

Date: March 23, 2016

Signature: 

Name: MOO YOUNG JUNG

Title: President of ULSAN NATIONAL
INSTITUTE OF SCIENCE AND TECHNOLOGY

Enclosed: Appendix A

Appendix A

| | U.S. Patent No. | Application No. | Issue Date | Filing Date | Reel No. | Frame No. | Recorded |
|----|-----------------|-----------------|------------|-------------|----------|-----------|------------|
| 1 | | 14/845,488 | | 9/4/2015 | 037758 | 0979 | 02/18/2016 |
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